



STS-115 Launch Weather Forecast

Vehicle: STS-115, Atlantis

Issued: 9 September 2006/0900Z (0500 EDT)

Valid: 9 September 2006 1509 – 1520Z (1109 – 1120 EDT)

Launch Weather Team: (321) 853-8484

Synoptic Discussion: A surface high pressure area is located over the Eastern U.S., and the surface front is south of Kennedy Space Center (KSC). Easterly flow is building into the low levels over Central Florida, but the upper level trough is still to the north, and mid- and upper-level winds are westerly. With the lingering boundary to the south and an unstable atmosphere, there is still a slight chance for isolated showers in the area near launch. Afternoon thunderstorms will develop inland and migrate east toward KSC after launch, but will likely remain to the west of KSC. **Our primary concerns for launch are cumulus clouds within 10NM of Complex 39B, isolated showers within 20NM of the Shuttle Landing Facility (SLF).**

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	3/8 Scattered	2,000	4,000
Altostratus	2/8 Scattered	10,000	12,000
Cirrus	3/8 Scattered	25,000	26,000
Weather:	None		
Visibility:	7 miles		
Wind:	030° @ 8 - 12 KT (60 foot pad winds)		
Temperature:	80°F	RH: 85%	Dewpoint: 75°F

Probability of KSC weather prohibiting launch: 20%
Probability of KSC weather prohibiting tanking: N/A
Primary concern(s): Cumulus clouds within 10NM of 39B; showers within 20NM of the SLF.

Probability of KSC weather prohibiting launch for 24-hour delay: N/A
Probability of KSC weather prohibiting tanking: N/A
Primary concern(s): N/A

Probability of KSC weather prohibiting launch for 48-hour delay: N/A
Probability of KSC weather prohibiting tanking: N/A
Primary concern(s): N/A

Sunrise: 9 / 0705 EDT **Sunset:** 9 / 1935 EDT

Moonrise: 8 / 2020 EDT **Moonset:** 9 / 0902 EDT **Illumination:** 8-9 September 97%
9 / 2054 EDT 10 / 1011 EDT 9-10 September 92%

Next forecast will be issued: As required